Title (en)

LIGHT SOURCE DEVICE

Title (de)

LICHTQUELLEANORDNUNG

Title (fr)

DISPOSITIF A SOURCE DE LUMIERE

Publication

EP 1925975 A1 20080528 (EN)

Application

EP 07706906 A 20070117

Priority

- JP 2007050591 W 20070117
- JP 2006013013 A 20060120
- JP 2006013014 A 20060120
- JP 2006013021 A 20060120

Abstract (en)

The present invention relates to a light source apparatus that has a base structure capable of generating SC light and further having a structure that enables the shaping of the spectral waveform of the SC light, power adjustment of the SC light, or adjustment of the frequency of repetition of the pulse train that contains the SC light. For example, a light source apparatus that enables shaping of spectral waveforms comprises a seed light source that emits seed light which is a pulse train or continuous light; an optical fiber that generates SC light from the seed light, and spectrum shaping means for completely or partially changing the spectral waveform of the SC light. The shaping of the spectral waveform changes the maximum power of the seed light by changing the optical coupling efficiency of the seed light source and optical fiber, for example, thereby suitably deforms the spectrum of the SC light.

IPC 8 full level

G02F 1/35 (2006.01)

CPC (source: EP US)

G02F 1/3513 (2013.01 - EP US); G02F 1/3503 (2021.01 - EP US); G02F 1/3528 (2021.01 - EP US); G02F 2203/54 (2013.01 - EP); H01S 3/005 (2013.01 - EP); H01S 3/0085 (2013.01 - EP); H01S 3/0092 (2013.01 - EP)

Cited by

US9158177B2; US12038668B2; WO2021121529A1; WO2012069612A3; WO2021121531A1

Designated contracting state (EPC)

DE DK FR GB

DOCDB simple family (publication)

EP 1925975 A1 20080528; **EP 1925975 A4 20100428**; US 2009022189 A1 20090122; US 2011116282 A1 20110519; US 7982943 B2 20110719; US 8054537 B2 20111108; WO 2007083660 A1 20070726

DOCDB simple family (application)

EP 07706906 A 20070117; JP 2007050591 W 20070117; US 201113012377 A 20110124; US 88336407 A 20070117